Main issues and definitions

- Improving the glazing quality (e.g. from single to advanced glazing) is among the most energy efficient measures
- Sometimes the glazing area can be modified : e.g. reduced in a north facade, increased in a south facade
- Attention should be also paid to solar protection, and possible ventilation air inlets placed in window frames
- The three important characteristics of windows / glazing are : the heat loss factor (U in W/m²/K), the light (τ) and solar (g) transmittance factors
- A glazing is chosen according to the climate, orientation and exposure, in order to maximize the heat gains - losses balance





Main recommendations

- Keep large glazing area in living rooms (daylighting)
- Keep large glazing % in south facade and integrate solar protection (e.g. overhangs, external blinds)
- Reduce glazing area in north facades
- Choose low emissivity argon filled glazing (but high g-value in south facades), well insulated window frames, possibly triple glazing according to the climate
- If possible, compare different types of glazing using calculation (see section 2.1 and 2.2)





Example : Montreuil, France



After renovation : Low emissivity double Glazing, argon filled, Reduced glazing area In the north facade, Glazed balconies

Before renovation : single glazing 50% of the facades are glazed





